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**“जानने का अधिकार, जीने का अधिकार”**

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

**“पुराने को छोड़ नये के तरफ”**

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 11631 (1985): Gambrels for Sheep and Goats [FAD 18:  
Slaughter House and Meat Industry]

**“ज्ञान से एक नये भारत का निर्माण”**

Satyanaaranay Gangaram Pitroda

“Invent a New India Using Knowledge”



**“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”**

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”





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Indian Standard

## SPECIFICATION FOR GAMBRELS FOR SHEEP AND GOATS

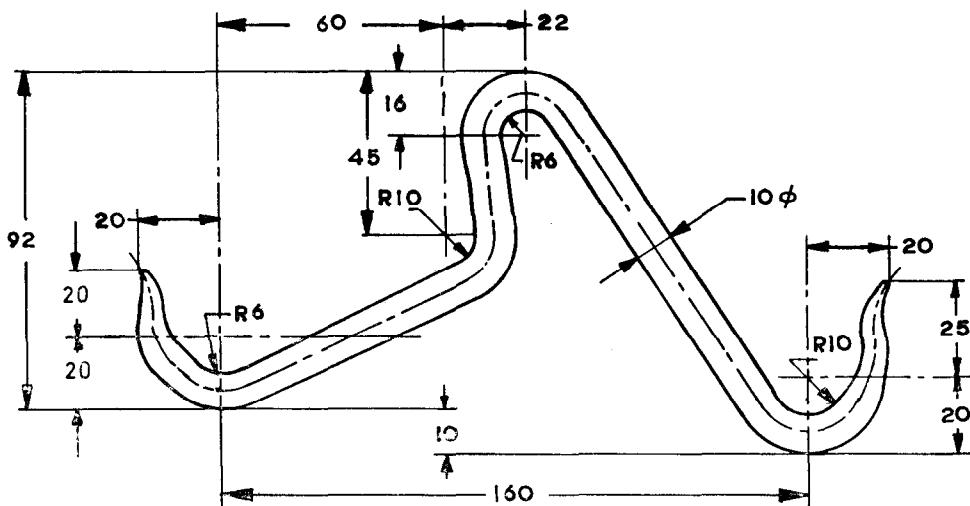
**1. Scope** — Specifies the material, dimensions and other requirements for gambrels for sheep and goats used in semi-automatic abattoirs.

**2. Description** — Gambrel shall be of a rod curved at an angle at both ends.

**3. Material** — The gambrels for sheep and goats shall be constructed from mild steel [ see IS : 226-1975 Specification for structural steel (standard quality) (first revision) ] or stainless steel (see IS : 6603-1972 'Specification for stainless steel bars and flats').

### 4. Shape and Dimensions

**4.1** The shape and dimensions of the gambrel shall be as given in Fig. 1.



All dimensions in millimetres.

FIG. 1 DIMENSIONS OF GAMBREL FOR SHEEP AND GOATS

**4.1.1** The tolerance for the various dimensions shall be  $\pm 5$  percent.

### 5. Constructional Requirements

**5.1** The mass of a gambrel for sheep and goat shall be 300 g  $\pm 5$  percent.

**5.1.1** Gambrels shall be of uniform mass and the mass of each gambrel shall not vary by more than 5 percent of the nominal mass.

**5.2** The gambrel shall not bend when weighed with a load of 100 kg  $\pm 5$  percent.

**5.3** The gambrel shall move freely on the hook.

**5.4** The end hooks of the gambrel rod shall be smoothly pointed.

### 6. Workmanship and Finish

**6.1** The gambrel for sheep and goats shall hang horizontally.

**6.2** The gambrels shall be free from flaws, burrs, pits and sharp edges. The mild steel gambrels shall be hot dip galvanized for protection from rust and corrosion.

## 7. Marking

**7.1** Each gambrel for sheep and goat shall be marked with the following information:

- a) Manufacturer's name or trade-mark, if any;
- b) Year of manufacture;
- c) Batch or code number; and
- d) Nominal mass of the gambrel.

**7.1.1** The marking shall be done at an appropriate and visible place.

**7.1.2 ISI Certification Marking** — Details available with the Indian Standards Institution.

**8. Packing** — The gambrel for sheep and goats shall be packed for safe handling in transit as agreed to between the manufacturer and the purchaser.

**9. Sampling** — The method for drawing representative samples of gambrels for sheep and goats and the criteria for conformity shall be as given in Appendix A.

## A P P E N D I X A

(Clause 9)

### SAMPLING OF GAMBRELS FOR SHEEP AND GOATS

#### A-1. Scale of Sampling

**A-1.1 Lot** — In any consignment of the gambrels for sheep and goats of the same type, shape, size and belonging to the same batch of manufacture shall be grouped together to constitute a lot.

**A-1.2** For ascertaining the conformity of the material to the requirements of this specification, samples shall be tested from each lot separately.

**A-1.3** — The number of gambrels for sheep and goats to be selected from a lot shall depend on the size of the lot and shall be according to col 1 and 2 of Table 1.

**A-1.3.1** These gambrels for sheep and goats shall be selected at random from the lot. In order to ensure the randomness of the selection, procedures given in IS : 4905-1968 'Methods for random sampling' may be followed.

TABLE 1 SCALE OF SAMPLING AND PERMISSIBLE NUMBER OF DEFECTIVES  
(Clause A-1.3)

Number of Gambrels for Sheep and Goats in the Lot (1)	For Visual and Dimensional Requirements		Number of Gambrels in the Sub-sample for Bend Test (4)
	Number of gambrels to be selected (2)	Permissible number of defectives (3)	
Up to 100	5	0	2
101 .. 300	13	1	2
301 .. 500	32	3	3
501 .. 1 000	50	5	5
1001 and above	80	7	8

**A-2. Number of Tests and Criteria for Conformity**

**A-2.1** All the gambrels for sheep and goats selected according to **A-1.3** shall be examined for all the visual and dimensional requirements (see **4.1, 5.1, 5.3, 5.4, 6.1** and **6.2**). A gambrel failing to satisfy any one or more of these requirements shall be considered as defective. The lot shall be considered as conforming to these requirements if the number of defectives found in the sample is less than or equal to the corresponding number of permissible number of defectives given in col 3 of Table 1.

**A-2.2** The lot having been found satisfactory according to **A-2.1** shall be further subjected to bend test given in **5.2**. For this purpose, a sub-sample of size given in col 4 of Table 1 shall be taken from the lot. These gambrels may be selected from those already examined according to **A-2.1** and found satisfactory. The lot shall be declared as conforming to the requirements of this specification if none of the gambrels subjected to the bend test fails to satisfy the requirements of this test.

**E X P L A N A T O R Y   N O T E**

Gambrels are used for hanging and moving dressed carcasses of sheep and goats in an abattoir so as to avoid contamination of the carcasses from floor and to ensure ease in further examination and processing of the carcasses.